



TENNESSEE DEPARTMENT OF AGRICULTURE Water Resources Program

April 20, 2011

Ms. Erin O'Brien TDEC L&C Annex, 6th Floor Nashville, Tennessee 37243

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APR 2 5 2011

TN Division Of Water Pollution Control

Dear Ms. O'Brien:

I am writing to inform you that I have reviewed the application and Nutrient Management Plan (NMP) for CAFO permit for Stacy Davis in Red Boiling Springs, Tennessee (previous NPDES Permit NO. TNA000071).

This letter is to confirm that the TDA has reviewed and approved the NMP. I have enclosed a copy of the Nutrient Management Plan Requirements form and the original signed and dated Notice of Intent (NOI) form, Addendum to Nutrient Management Plan, Closure Plan, and stamped Approval Stamp form for your review and final approval.

Sincerely,

Angela L. Warden CAFO Specialist

J. Wad

: //enclosures

ec:// Stacy Davis, Davis Poultry, Red Boiling Springs, TN
Jeffery Young, District Conservationist, NRCS, Clay County, TN

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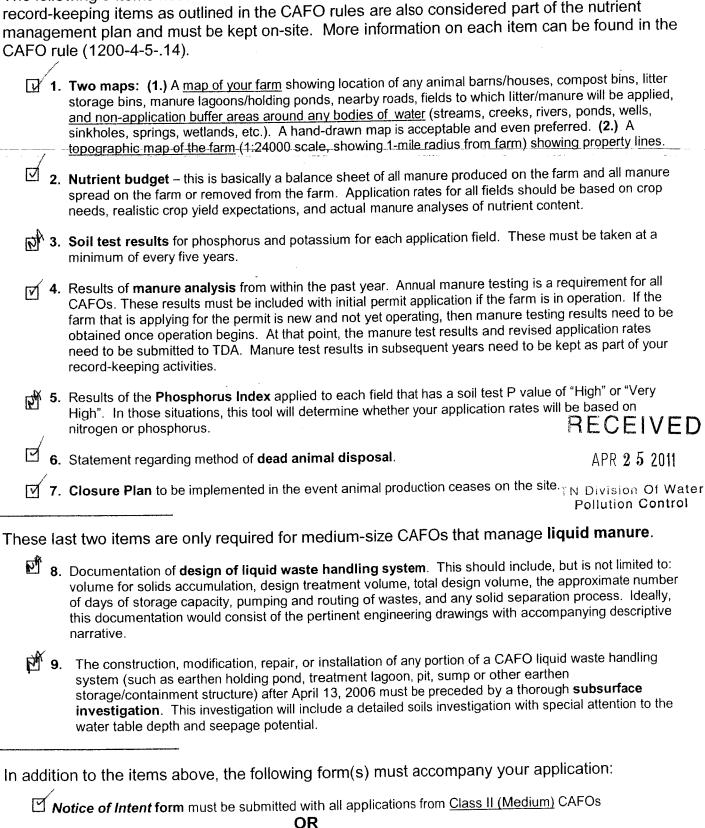
TENNESSEE DEPARTMENT OF AGRICULTURE

Water Resources Program

The following individual has submitted all required elements of an NMP/CNMP as required to obtain a CAFO permit. Their Nutrient Management Plan (or CNMP) has been reviewed and approved by this office.

	, Rd Red Boiling Springs, TN 30
ie Number: <u>(615) 699 - 2980</u>	County: <u>Clay</u>
ate application was initiated:	Date approval forwarded to TDE
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APR 20 2011	APR 20 2011
IMP/CNMP Approval Date: THE APPROVAL SHALL NOT BE CONSTRUED AS CREATING A PRESUMPTION OF CORRECT	Date approval received by TDE
	RECEIVED
APR 20 2011	APR 2 5 2011
OPERATION OR AS WARRANTING THAT THE APPROVED FACILITIES VILL REACH THE DESIGNED GOALS	TN Division Of Water Pollution Control
- · · · · · · · · · · · · · · · · · · ·	

The following 9 items need to be submitted at the time the permit is applied for. Additional record-keeping items as outlined in the CAFO rules are also considered part of the nutrient management plan and must be kept on-site. More information on each item can be found in the CAFO rule (1200-4-5-.14).



PA Forms 1 and 2B must be submitted with all applications from Class I (Large) CAFOs.

Addendum to Nutrient Management Plan.



Tenne Department of Environment and Conser on, Division of Water Pollution Control 401 Church Street, 6th Floor L & C Annex, Nashville, TN 37243 (615) 532-0625

CONCENTRATED ANIMAL FEEDING OPERATION (CAFO) STATE OPERATING PERMIT (SOP) APPLICATION

Type of permit you are requesting Application type:	ng: SOPCD0000 (design New Permit If this NOI is submitted for	0 /	SOPC00000 Permit Reiss n or Reissuance prov	nuance	Perm	nown, please advise nit Modif cation number:
OPERATION IDENTIFICATION	N N				Т	
Operation Name: DAV	s Poultry				County:	Fentress Clay
Operation Location/ 49	s poultry 29 Bakerton	20			Latitude: 3	B6,5280
Physical Address:	Boiling Spring Spring water(s): Range	ings TM	1. 37150		Longitude:	85.7449
Name and distance to nearest re	eceiving water(s): Bear	Branch	400	7		
If any other State or Federal Winne	ater/Wastewater Permits have	been obtained for	this site, list those	permit numbe	rs:	
Animal Type:	ltry Swine] Dairy	Beef	Other		
Number of Animals: 40000	44,000 Number of Ba	ıms: 2	Name of	Integrator: 2	E@Uity_	Group
Type of Animal Waste Manage (check all that apply)	Liquid		.e. covered tank, u	nder barn pit, e	tc.)	
Attach the NMP NMP A	ttached Attach the closure	e plan 🛛 Closu	re Plan Attached	Attach a topo	graphic map	May Attached
PERMITTEE IDENTIFICATION)N					
Official Contact (applicant):		Title or Position	:			
Starcy DAV Mailing Address:	،5			272344W2F474F4		57 1 Commentance
		City:	*	State:	Zip:	☐ Correspondence
5603 Bakerten	KO.	Ked bo	iling sprin	9 110	37/50	·⊠Invoi≎e
Phone number(s): (215 - 699-29)	80	Stday	iling sprin 1131@nct	C. Com		
Optional Contact:	<u>, , , , , , , , , , , , , , , , , , , </u>	Title or Position	1:	<u> </u>		
		0WV	er			
Address:		City:		State:	Zip:	Corre spondence
Diagonal manager		E-mail:				☐ Invoice
Phone number(s):		E-Man.				
APPLICATION CERTIFICATION	AND SIGNATURE (must be signature of the state of the stat	gned in accordanc	e with the requiren	nents of Rule I	200-4-505) my direction	on or supervision
I certify under penalty of in accordance with a sys	tem designed to assure	t and all allach that qualified	ments were pre nersonnel prope	erly gather a	nd evaluate	e the information
submitted Based on my	inquiry of the person or	persons who n	nanage the syste	em, or those	persons an	ectly responsible
for gathering the informa	ation, the information su	ibmitted is, to t	he best of my k	nowledge a	nd belief, tr	rue, accurate, and
complete. I am aware th	at there are significant p	penalties for su	bmitting false	information,	including	the possibility of
fine and imprisonment for	or knowing violations.		:		n	ate
Name and title; print or type		3	ignature	<u> </u>		
Davis Va	oultry) leng	<u>Villio</u>		4-18-11
STATE USE ONLY	Reviewer	EFO	T& E	Aquatic Fauna	Tra	icking No.
RECEIVED					NC	OC Date
APR 2 5 2011	Impaired Receiving Stream]	High Quality Water		RE	CEIVE

Addendum to Nutrient Management Plan:

By approval of this plan, I affirm that I have read, understand, and will comply with the following stipulations from Tennessee's CAFO rule (1200-4-5-.14) that apply to my CAFO operation.

All clean water (including rainfall) is diverted, as appropriate, from the production area.

- 2. All animals in confinement are prevented from coming in direct contact with waters of the state.
- 3. All chemicals and other contaminants handled on-site are not disposed of in any manure, litter, process wastewater, or storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants.
- 4. All sampling of soil and manure/litter is conducted according to protocols developed by UT Extension.
- 5. All records outlined in 1200-4-5-.14(16) d-f will be maintained and available on-site.
- 6. Any confinement buildings, waste/wastewater handling or treatment systems, lagoons, holding ponds, and any other agricultural waste containment/treatment structures constructed after April 13, 2006 are or will be located in accordance with NRCS Conservation Practice Standard 313.
- Drystacks of manure or stockpiles of litter are always kept covered under roof or tarps.
- 3. An Annual Report will be written for my operation and submitted between January 1 and February 15 of each year. It will include all information required by rule [1200-4-5-.14(16)g].

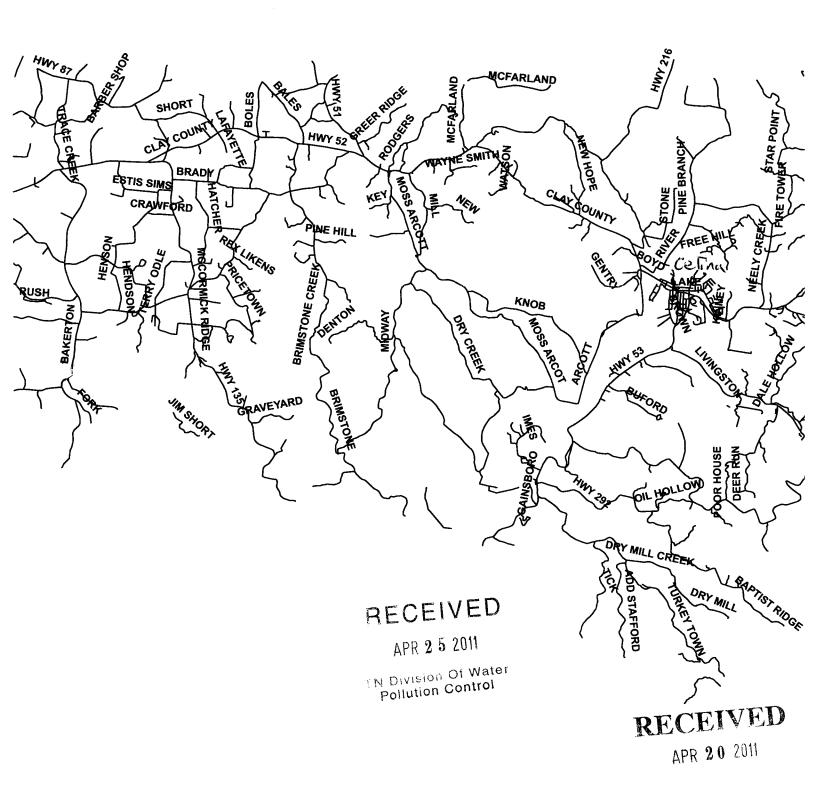
Signature: tuy Davis

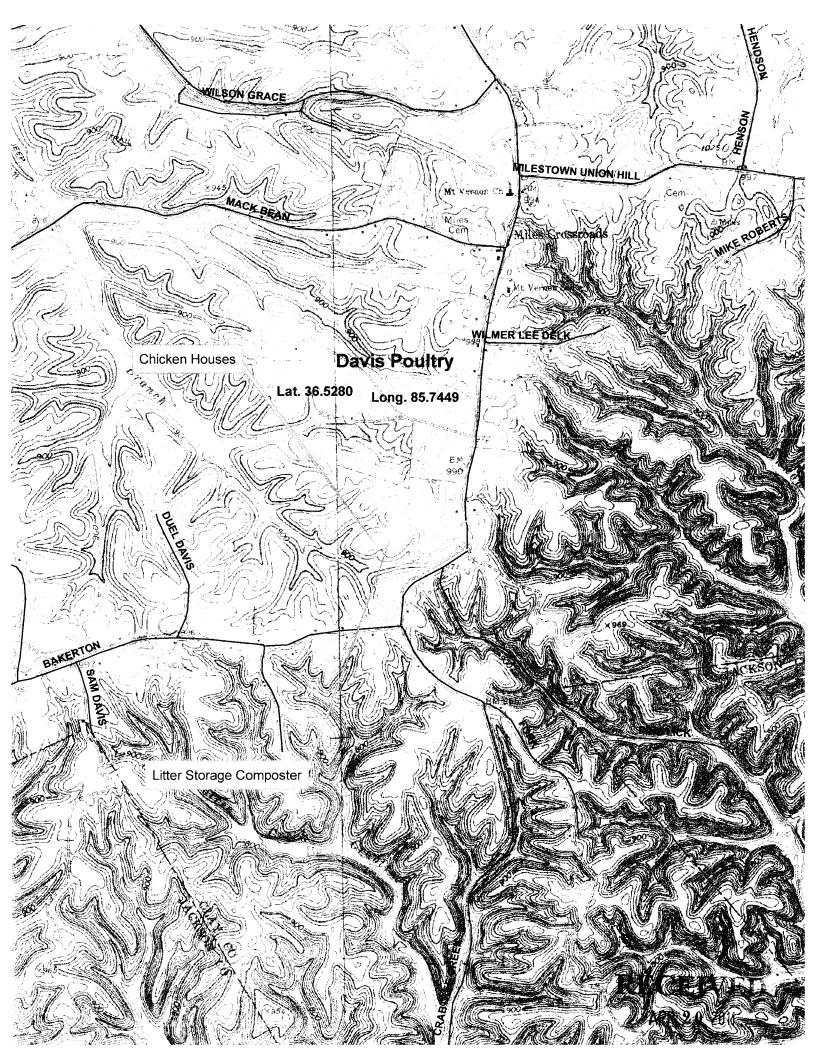
Date: 4-18-1/

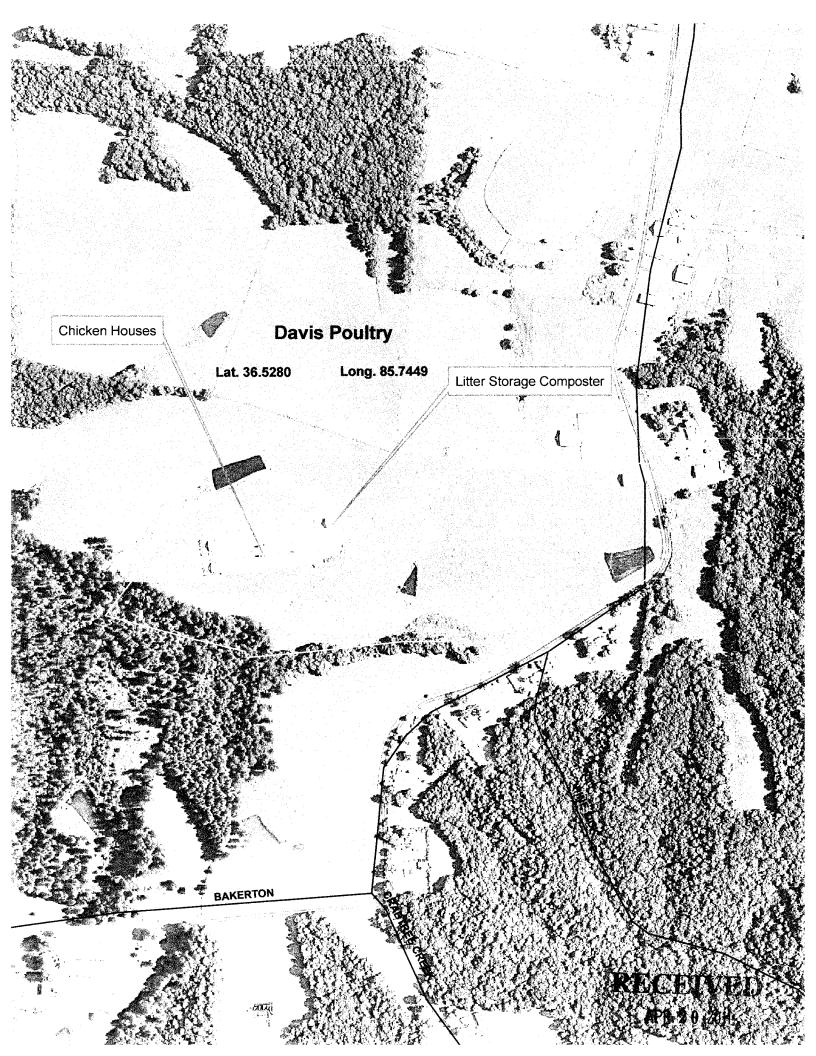
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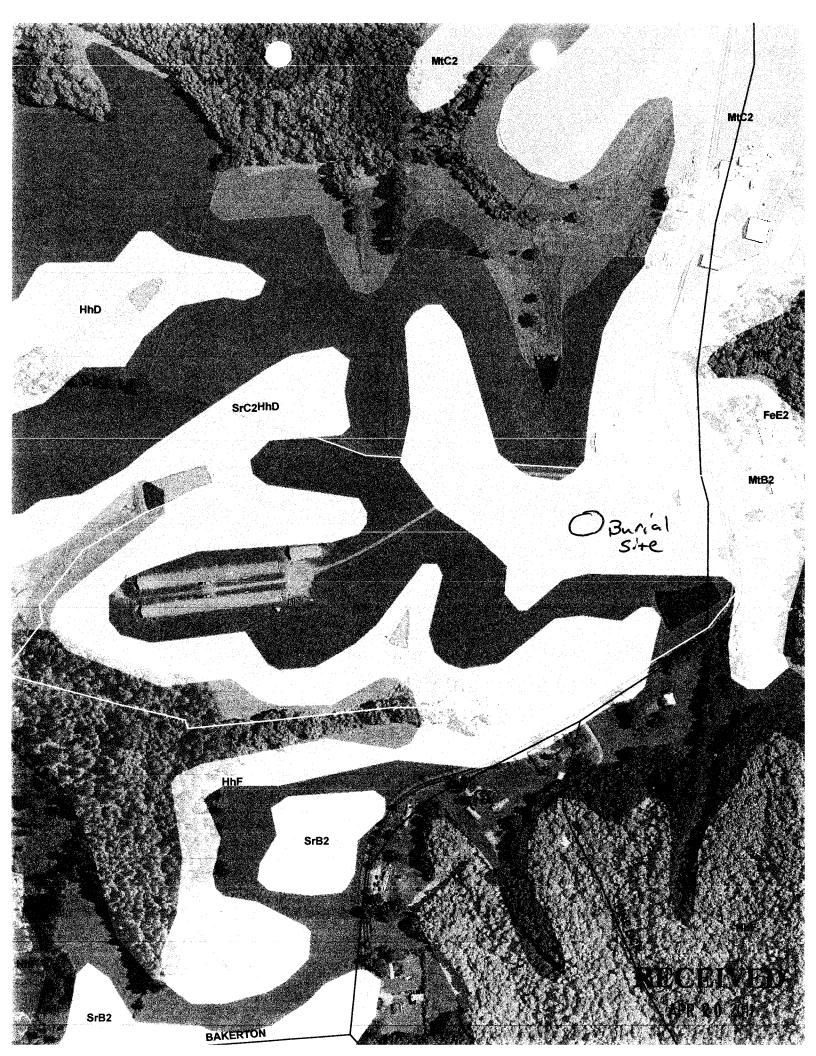
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The following table describes how you plan to manage catastrophic loss of animals in a manner that protects surface and ground water quality. You must follow all national, state and local laws, regulations and guidelines that protect soil, water, air, plants, animals and human health.

Burial will be used for catastrophic poultry and beef cow mortality.

BURIAL-- Dig a large pit or trench as located on the plan map. Insert dead animals daily, and cover them with one to two feet of soil. The pit should be graded so that it does not impound water. Runoff from the pit should flow into a grass filter. Note: When adequate drainage is not provided, these pits or trenches fill with water and carcasses may actually float to the surface. The water in the pit is very bacteria-laden and may be a hazard to both animal and human health. There is also high potential for ground water contamination from both bacteria and nutrients.

Burial trenches and pits must have at least a 2.0-foot separation between the bottom of the trench and groundwater. The pits should also have a berm to divert rainfall and runoff from the site. The soil should be able to infiltrate any rainfall that falls directly into the pit.

Vectors (dogs, rats, snakes, flies, etc.) are potential problems in a burial situation. Carcasses must be covered daily as to reduce vectors in and around the trench or pit.

When the burial pit is full, the site will be capped with a mound of soil so that precipitation is not allowed to collect in the closed pit. Also, the area will be grassed as to prevent erosion. The burial area will be monitored so that these conditions remain after settling of decomposing carcasses and capping material.

Important! In the event of catastrophic animal mortality, contact the following authority before beginning carcass disposal:

Authority name APHIS Contact name Phillip Gordon Phone number 615-781-5310

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Large Animal Carcass Disposal

Clay County, Tennessee

[Onsite investigation may be needed to validate the interpretations in this table and to confirm the identity of the soil on a given site. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the potential limitation. The table shows only the top five limitations for any given soil. The soil may have additional limitations]

Map symbol	Pct. Map symbol of and soil name map unit	Large Animal Carcass Disposal, Pit		Large Animal Carcass Disposal, Trench	
and son name		Rating class and limiting features	Value	Rating class and limiting features	Value

MtB2:

Mountview, eroded

85 Not limited

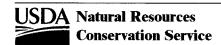
Not limited

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A&L Analytical Laboratories, Inc.

2790 Whitten Rd. Memphis, TN 38133 (901) 213-2400 Fax (901) 213-2440

LAND APPLICATION ANALYSIS

Client: Mr. Stacy Davis Grower:

Report No:

11-084-0211

Analytical Testing

Cust No: Date Printed:

08605 04/04/2011

5603 Bakerton Road

Date Recd:

3/25/2011

Red Boiling, TN 37150

PO:

Page:

1 of 1

Lab Number: 91413

Sample ld: 1

	Ana	ilysis	Pounds Per Ton		
Test	As Received	Dry Basis	As Received	Dry Basis	
Nitrogen, N %	2.08	2.59	41.6	51.9	
Ammoniacal-N					
Phosphorus, P %	1.67	2.08	76.8 P ₂ O ₅	95.8	
Potassium, K %	1.54	1.92	37.0 K ₂ O	46.1	
Sulfur, S %	0.89	1.10	17.8	22.2	
Magnesium, Mg %	0.64	0.79	12.8	16.0	
Calcium, Ca %	3.02	3.76	60.4	75.3	
Sodium, Na ppm	7500	9350	15.0	18.7	
Iron, Fe ppm	763	951	1.52	1.90	
Aluminum, Al ppm	699	872	1.39	1.74	
Manganese, Mn ppm	494	616	0.98	1.23	
Copper, Cu ppm	58.2	72.6	0.11	0.14	
Zinc, Zn ppm	412	514	0.82	1.02	
Boron, B ppm	41.0	51.1	0.08	0.10	

(Test	Result
Moisture %	19.8
Solid %	80.2

Additional Information	Result
Туре	Dry Basis

RMMA Recommended Methods of Manure Analysis, Peters et al, 2002, In Press SW USEPA, SW-846, Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, 3rd Ed. **Current Revision**

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Oscar Ruiz

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N ient Management Plan - Po ry

For Use by Farms

Exporting 100% of Litter Generated

S-WESTERS	1. Farmer/ Producer Info	ormation				
e,	Is ALL Litter Hauled Offsite* *If the answer is "No," do not co	mplete this form.		Yes Please circle	No one	
	First Name:	Stacy]
	Last Name:	Davis	·]
	Farm/ Operation Name:	Davis Poultry				
	Tennessee County:	Clay				
	2. Volumes and Calculat	ions				
	Poultry Type:	ı	Broiler	Pullet circle the type(s)	Layer	
Key	Number of binds you become		The amount of	littor ramayad fron	n a poultry house will	
A	Number of birds per house per grow-out:	22000	vary depending	on the litter moist	ure content, type and	
			-	d length of time bil e summarized from	rds are kept in house. the NRCS Poultry	
	Noveles of Heres		-		n placing the litter sist in litter calculations.	
В	Number of Houses:	2	amount produc	eu per bira ana ass	Avg. Weight of Litter	7
			Type of Bird	Market/ Mature Weight (lbs)	Produced (lbs)/ Bird / Grow-Out	
			Туре от ви а	small (3.8 - 5 .8)	2.1	1
С	Number of Grow-Outs / Year	r: 5.5	Broilers	large (5.9 - 7+)	2.4	
		·	Layer	8 - 12	8	1
	Average Weight of Litter Produced (lbs.)/ Bird / Grow-					
	Out (see Table at right or use				:	
D	your farm average if known)	2.4	Pullet	5.5	3	
	Take Bolded Letters in	Key Column Abo	ove and Below to	Assist in Calculatin	ng Values Below	
	Number of Birds per Grow-O		44000	J	RECEI	\/ F
	Number of Birds Example: If A = 22,000 X 2 = 44,000 number of b		and C= 5.5 then	<i>:</i>		
KEY					APR $ 2 5$	201
E	Number of Birds per Year = A Number of Birds per Year Examp		and R= 2 and C=	242000	TN Division Pollution	Of V Cont
	22,000 x 2 x 5.5 =242,000 number			J.J men.	, onan-	
	Total Tons of Litter Produced	l per Year on th	e Farm = E x D ,	/ 2,000 =	290.4	
	Tons of Litter Produced Example	-		en:		
	242,000 x 2.1 lbs = 508,200 lbs. / Tons of Litter Exported from	•	5	290.4		
	·	-				

ient Management Plan - Po N

For Use by Farms **Exporting 100% of Litter Generated**

3.	Litter	Handling	and :	Storage
----	--------	----------	-------	---------

Litter Contents from Manure Analysis

Laboratory Name	House	Date of Analysis	Total N	P ₂ O ₅ ^a	K₂O ^b	Units
A&L	Litter Stora	4/4/2011	41.6	76.8	37	lbs./Ton
						lbs./Ton
						lbs./Ton

I will get an annual manure analysis and provide the results to all parties which/are given or purchase litter from my farm or operation.

Mortality Management

Dead birds will be disposed of according to State and local laws in a way that does not adversely affect groundwater or create public health concern. All mortalities will be disposed of using:

Composting Incineration

Other:

please circle one

Closure Plan

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In the event that poultry production at this location ceases, the following will be done within 360 days:

APR 2 5 201 TN Division Of Water

Pollution Control

- Any litter/ compost currently in storage at the time of closure will be removed and spread elsewhere according to my current NMP.
- All litter in houses will be removed and spread elsewhere according to my current NMP.
- The most current manure analysis performed by an accredited laboratory will be provided to anyone removing litter on my farm.
- Any dead birds in the houses at the time of closure will be disposed of according to my NMP.

Signature that I have read and agree to this Closure Plan

Notes:

N = Nitrogen

 P_2O_5 = Phosphorus Oxide

 K_2O = Potassium Oxide

 $^{
m a}$ lf Phosphorus is expressed in analyses as Phosphorus (P), simply multiple P lbs. X 2.3 to convert to P $_{
m 2}O_{
m 5}$.

of Potassium is expressed in analyses as Potassium (K), simply multiple K lbs. X 1.2 to convert to KO

APR 20 2011

N: ient Management Plan - Po ry

For Use by Farms Exporting 100% of Litter Generated

4. Checklist	
Use this sheet to help ensure that you have included all req for your CAFO application and Nutrient Management Plan	
Forms Signed revised Notice of Intent Form Signed Addendum to Nutrient Management	Plan
Maps Map of Farm/ Operation Showing the Location Compost Bins, Litter Storage Bins, Nearby Ro	
Topographical map of the Farm/ Operation s and location of poultry houses.	showing property lines
 Calculations and Volumes Number of Birds per House Total Number of Birds per Year Number of Houses 	RECEIVED
 Number of Grow-Outs Each Year Average Weight of Birds Tons of Litter Produced Per Year 	APR 2 5 2011 IN Division Of Wate Pollution Control
Manure Analysis / Mortality Disposal • Annual Manure Analysis Performed by an Ac	ccredited Laboratory
Statement Regarding Dead Animal Disposal, *If rendering is method listed, make sure to i address of the renderer in the notes area at	include the name and

Notes: This operation Will use composting for normal mortality and burial for catastrophic mortality. See soil Map for Buriel Site.

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